

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHROEDER 1-11
Doc ID	1431279

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHROEDER 1-11
Doc ID	1431279

Tops

Name	Top	Datum
Anhydrite	1568	+803
Heebner	3926	-1555
Muncie Creek	4170	-1799
Stark Shale	4284	-1913
Upper Pawnee	4503	-2132
Fort Scott	4574	-2203
Base of Inola Lst	4659	-2288
Mississippian	4718	-2347





P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
11/28/2018	31918

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

*INT*

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-11	Schroeder	Hodgeman	Duke Drilling Rig ...	Oil	Development	Surface Pipe	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	5.00	150.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	875.00	875.00
325	Standard Cement				165	Sacks	13.00	2,145.00T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
278	Calcium Chloride				5	Sack(s)	40.00	200.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				165	Sacks	1.75	288.75
582W	Minimum Drayage Charge				1	Each	250.00	250.00T
	Subtotal							4,082.75
	Sales Tax Hodgeman County						7.65%	211.83

RECEIVED  
DEC 04 2018

*502-5  
DH*

**We Appreciate Your Business!**

**Total**

\$4,294.58

*DW*



TICKET 031918

CHARGE TO: Shakespeare  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Ness City, KS WELL/PROJECT NO. \_\_\_\_\_ LEASE Schroeder COUNTY/PARISH Hodgeman STATE KS CITY Jethmore DATE 11/28/2018 OWNER \_\_\_\_\_  
 2. \_\_\_\_\_ TICKET TYPE  SERVICE  SALES CONTRACTOR Duke RIG NAME/NO. 2 SHIPPED VIA CT DELIVERED TO Location ORDER NO. \_\_\_\_\_  
 3. \_\_\_\_\_ WELL TYPE D1 WELL CATEGORY Development JOB PURPOSE Surface Pipe WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION Jethmore, 1 1/2 W  
 4. \_\_\_\_\_ REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT DF		U/M	U/M		
575				MILEAGE Trk #115		30	m	150.00
576S				Pump Charge - Shallow Surface		1	job	875.00
325				Standard Cement		165	sk	2145.00
279				Benzoite Gel		3	sk	90.00
278				Calcium Chloride		5	sk	200.00
290				D-Air		2	gal	84.00
581				Service Charge Cement		165	sk	288.36
583				Dehydrate - Minimum Charge		1	ea	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X Bluen Veaguey  
 DATE SIGNED 11/28/2018 TIME SIGNED 3:45  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAYS?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 1 TOTAL 4294.58

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES. The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR Judean Furr APPROVAL \_\_\_\_\_  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11/28/2012 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
<u>Shakespeare</u>		<u>1</u>		<u>Schroeder</u>		<u>Surface Pipe</u>		<u>031918</u>	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	<u>0000</u>								<u>On Location</u> <u>8 5/8" 23#</u> <u>RTD: 260</u>
	<u>0145</u>								<u>Start 8 5/8" Casing in Well</u>
	<u>0235</u>								<u>Break Circulation</u>
	<u>0255</u>	<u>4</u>	<u>5</u>		<input checked="" type="checkbox"/>		<u>0</u>		<u>Pump 5 bbl water Spacer</u>
	<u>0300</u>	<u>3 1/2</u>	<u>40</u>		<input checked="" type="checkbox"/>		<u>100</u>		<u>Mix 165 sks of STD 2% gel 3% CC</u> <u>Cement @ 14.7 ppq</u>
	<u>0315</u>	<u>4</u>	<u><del>9</del></u>		<input checked="" type="checkbox"/>		<u>200</u>		<u>Start Displacement</u>
		<u>4</u>	<u>7</u>		<input checked="" type="checkbox"/>		<u>200</u>		<u>Circulate Cement to Surface</u> <u>*30 sks to the Pit*</u>
	<u>0325</u>	<u>4</u>	<u>15.5</u>		<input checked="" type="checkbox"/>		<u>200</u>		<u>KO Pump Shut-in</u>
									<u>Release Pressure * Hold *</u>
	<u>0330</u>								<u>Wash-up Truck</u>
	<u>0350</u>								<u>Job Complete</u>
									<u>Thank You,</u>
									<u>Crideon, Preston, Kirby</u>
									<u>165 sks of STD 2% gel 3% CC</u> <u>used - 30 to Pit</u>



**Quality Well Service, Inc.**

**Invoice**

**PO Box 468  
Pratt, KS 67124**

Date	Invoice #
12/17/2018	C-1924

Bill To
Shakespeare Oil Co. 202 W. Main Salem, IL 62881

*INT - P+A*

P.O. No.	Terms	Lease Name
		Schroeder #1-11

Description	Qty	Rate	Amount
Common	120	15.50	1,860.00T
Poz	80	9.50	760.00T
Gel	7	22.00	154.00T
Flo-Seal	50	3.70	185.00T
Plug	1	950.00	950.00T
Handling	207	2.10	434.70T
.08 * sacks * miles	12,000	0.08	960.00T
Service Supervisor	1	150.00	150.00T
LMV	60	3.75	225.00T
Heavy Equipment Mileage	120	8.00	960.00T
Customer Discount		-1,991.61	-1,991.61
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Schroeder #1-11 Hodgeman Co.			

**RECEIVED**  
DEC 20 2018

*502-5  
QH*

Thank You for your business & Happy Holidays!

<b>Subtotal</b>	\$4,647.09
<b>Sales Tax (7.65%)</b>	\$355.50
<b>Total</b>	\$5,002.59

*DW*

# QUALITY WELL SERVICE, INC.

7017

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-8-18	11	23S	24W	Hodgeman	Ks		
Lease Schroeder		Well No. 1-11		Location JETMORE, KS L Rd W to 217			
Contractor Duke Oil & Rig #2				Owner 1/2 S Winto			
Type Job PTA				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8		T.D. 4789		Charge To SHAKESPEARE OIL Co Inc			
Csg.		Depth		Street			
Tbg. Size 4 1/2 DP		Depth 1590'		City State			
Tool		Depth		City State			
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace		Cement Amount Ordered 200 sc 60/40 4 1/2 GEL			
<b>EQUIPMENT</b>				1/4" CF			
Pumptrk	B No.	TS		Common 120			
Bulktrk	10 No.	JAKE		Poz. Mix 80			
Bulktrk	No.			Gel. 7			
Pickup	No.			Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole 30 x 60/40 4 1/2 GEL 1/4" CF.				Salt			
Mouse Hole				Flowseal 50			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
on loc Rig Tripping in hole				Sand			
1st Plug 1590' 50 x 60/40 4 1/2 GEL 1/4" CF				Handling 207			
Pump H2O				Mileage 60			
Mix Pump 50 x 60/40 4 1/2 GEL 1/4" CF				<b>FLOAT EQUIPMENT</b>			
Pump H2O				Guide Shoe			
D. 50 mud				Centralizer			
2nd Plug 780' 50 x 60/40 4 1/2 GEL 1/4" CF				Baskets			
Pump H2O				AFU Inserts			
Mix Pump 50 x 60/40 4 1/2 GEL 1/4" CF				Float Shoe			
D. 30 H2O				Latch Down			
3rd Plug 290' 50 x 60/40 4 1/2 GEL				SERVICE SUPERVISOR			
Pump H2O				LMV 60			
Mix Pump 50 x 60/40 4 1/2 GEL 1/4" CF				Pumptrk Charge PTA			
D. 30 H2O				Mileage 120			
4th Plug 60' 20 x 60/40 4 1/2 GEL 1/4" CF				Tax			
Thank you PLEASE CALL AGAIN TOMORROW JAKE				Discount			
				Total Charge			
				Signature Leon Vazquez			

OPERATOR	Shakespeare Oil Company, Inc.	COMM.	11/27/18	COMP.	12/8/18	ELEVATION	2371'
LEASE	Schroeder	WELL No.	1-11	RTD.	4799'	LTD.	4791'
LOCATION	2299' FNL & 690' FEL	DRILLING TIME KEPT FROM	3800'	to	TD	Measurements from KB	
Sec.	11	Twp.	23S	Rge.	24W	SAMPLES EXAMINED FROM	3800'
COUNTY	Hodgeman	STATE	Kansas	GEOLOGICAL SUPERVISION FROM	3668'	to	TD
CONTRACTOR	Duke Drilling Co. Rig #2	DISPLACE MUD	3308'	MUD TYPE	Chemical		

**Formation Record** OPEN-HOLE LOGS WEATHERFORD [Engineer: Stacy Wight]  
Triple-Combo w/ Micro 23S-24W

FORMATION	TOP DATUM	LOG DATUM	TOP DATUM	SAMPLE DATUM	STRUCTURAL COMPARISON
Stone Corral	1563'	+808'	1566'	+805'	-5'
Heebner	3926'	-1555'	3935'	-1564'	-15'
Stark	4283'	-1912'	4284'	-1913'	-29'
Marmaton	4429'	-2058'	4437'	-2066'	-29'
Fort Scott	4576'	-2205'	4584'	-2213'	-38'
Conglomerate	4659'	-2288'	4666'	-2295'	-44'
Miss	4736'	-2365'	4743'	-2372'	-86'

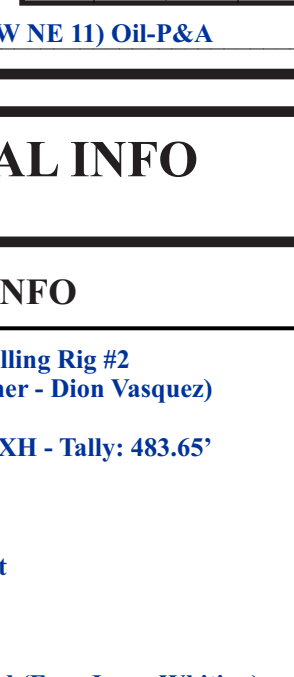
**CASING RECORD**

Surface: 8 5/8", 23# @ 258' (Tally 247')

165 xx Class A, 2% gel, 3% cc

Production: None/D&A

REFERENCE WELL FOR STRUCTURAL COMPARISON  
American Energies' Mack 'B' #1 (SW SE NE 11) OIL-P&A



**DRILLING CHRONOLOGY, DST's and GENERAL INFO**  
DETAILED DAILY DRILLING INFORMATION ON RIGHT COLUMN OF LOG

BIT RECORD							GENERAL INFO	
NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS	DRILLING CONTRACTOR: Duke Drilling Rig #2 (Tooltpusher - Dion Vasquez)	
1	12-1/4"	JMRS 8610	Tri-Cone	260'	260'	5.34	DRILL COLLARS: 16 @ 6.25" x 2.25" XH - Tally: 483.65' Dry wt: 90.8#/ft	
2	7-7/8"	HA-20	Tri-Cone	3845'	3585'	90 1/2	KELLY: 40.35'	
3	7-7/8"	HA-20	Tri-Cone	4799'	954'	45.34	DRILL PIPE: 4.5" XH - Dry wt: 16.6#/ft	

DAILY STATUS (0700 hrs)		DRILL-STEM TEST RECORD	
DATE	Depth/Activity	1 DST run by Trilobite Testing, Inc. (Tester- Benny Mulligan) (Charts at bottom of Log)	
11/27/18	MIRU 260' / WOC	DST #1- 4662-4693' (Basal Penn. Sandstone)	
11/29/18	1565' / Drilling		
12/01/18	2299' / TOH Change MP		
12/02/18	3100' / Drilling		
12/03/18	3580' / Drilling		
12/04/18	4000' / Drilling		
12/05/18	4445' / Drilling		
12/06/18	4693' / TOH for DST #1		
12/07/18	4693' / TH		
12/08/18	TD / Plugging		

**Remarks**

Geological supervision began @ 3668'. One-foot drilling time and 10' wet and dry samples were evaluated from 3,800' to Total Depth. Other pertinent data gathered includes 1 drill-stem test and an open-hole log suite. All rotary data should be adjusted 8' upward to match open-hole logs.

After evaluating all available information, this well was plugged and abandoned.

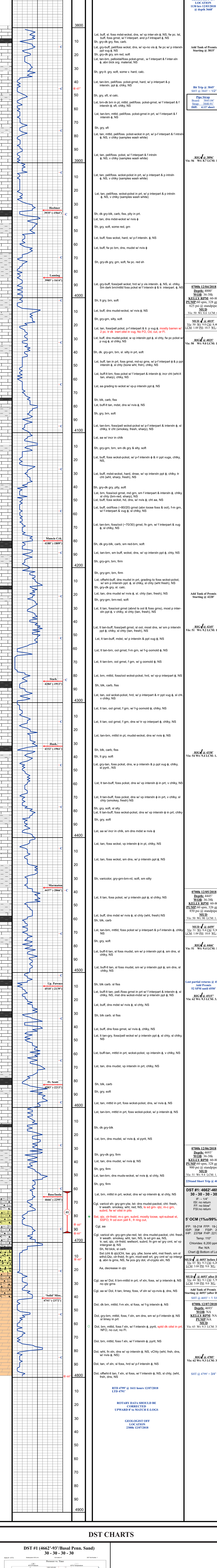
12/08/2018 Respectfully submitted,  
A. Tobias Eck, CPG  
Shakespeare Oil Company, Inc.

**Basic Legend**

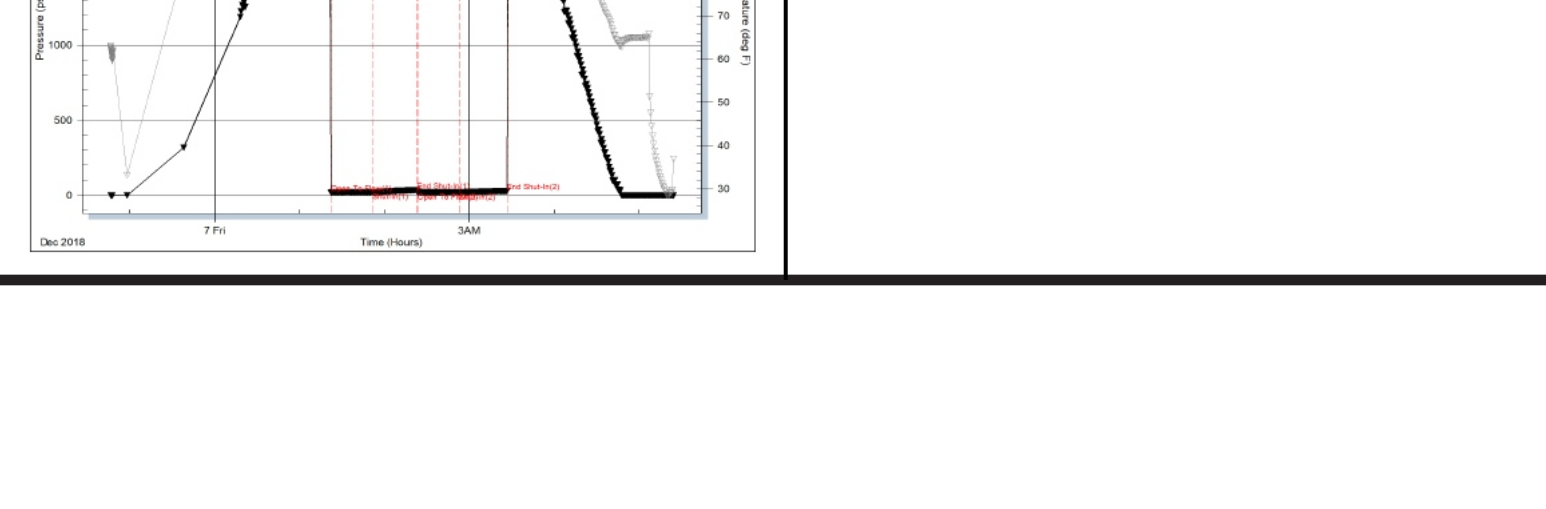
Basic Lithologies	Miscellaneous	Hydrocarbon Shows
Limestone	Circulating Point (Time Labeled)	Slight Oil Show
Sandstone	Connection	Fair Oil Show
Dolomite	Drill-stem Test (Interval & Number)	Strong Oil Show
Chert		Gas Show
Shale		
Carbonaceous Shale		
Siltstone		
Anhydrite		

(Industry-Standard symbols and abbreviations)

**SAMPLE DESCRIPTION (Lagged)**



**DST CHARTS**





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co Ink  
 202 w. main st. Salem IL 62881+1519  
 ATTN: Toby Eck

**11-23s-24w**  
**Schroeder #1**  
 Job Ticket: 64977      **DST#: 1**  
 Test Start: 2018.12.06 @ 22:46:00

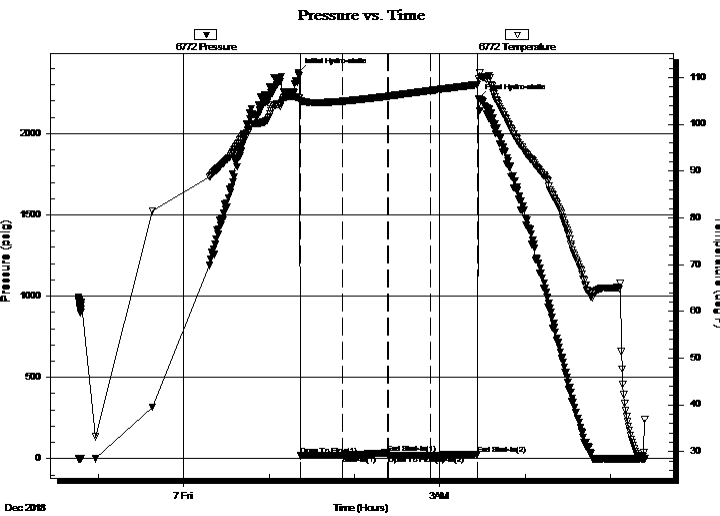
## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:22:10  
 Time Test Ended: 05:24:09  
**Interval: 4662.00 ft (KB) To 4693.00 ft (KB) (TVD)**  
 Total Depth: 4693.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Benny Mulligan  
 Unit No: 66  
 Reference Elevations: 2382.00 ft (KB)  
 2371.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 6772

Press@RunDepth: 21.14 psig @ ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.12.06      End Date: 2018.12.07      Last Calib.: 2018.12.07  
 Start Time: 22:46:01      End Time: 05:24:10      Time On Btm: 2018.12.07 @ 01:20:20  
 Time Off Btm: 2018.12.07 @ 03:27:20

TEST COMMENT: I.F.-30-1/4" blow  
 I.S.I.-30-no blow  
 F.F.-30-no blow  
 F.S.I.-30-no blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2376.37	105.61	Initial Hydro-static
2	18.14	105.05	Open To Flow (1)
32	21.34	104.92	Shut-In(1)
63	35.01	105.96	End Shut-In(1)
64	19.43	105.97	Open To Flow (2)
93	21.14	107.19	Shut-In(2)
127	28.62	108.49	End Shut-In(2)
128	2212.99	109.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	O.C.M. 1%O 99%M	0.07

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co Ink

**11-23s-24w**

202 w . main st. Salem IL 62881+1519

**Schroeder #1**

Job Ticket: 64977

**DST#: 1**

ATTN: Toby Eck

Test Start: 2018.12.06 @ 22:46:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	O.C.M. 1%O 99%M	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

